

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/001459

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: H04Q-7/36, H04Q-7/34, H04B-7/005, H04L-1/20, H04L-27/32, H04M-11/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: H04Q, H04L, H04M, H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Delphion, Canadian database, Esp@cnet, IEEEExplore, internet search: adaptive, link, coding, reception, quality, fading, channel, wireless, measurement, average, quantization, transmit control bits, and equivalent terms

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
X	US5764699 9 June 1998 (09-06-1998) Needham et al. *whole document	11, 15, 25
Y	EP0964540 A2 15 December 1999 (15-12-1999) Anandakumar et al. *abstract *paragraphs [0011], [0015], [0017], [0023]	1-10, 12-14, 16-24, 26-40
A	US6215827 10 April 2001 (10-04-2001) Balachandran et al. abstract *col 7 lines 54-65 *col 15 lines 29-64	10, 12, 19, 22, 28, 34, 40
A	US2003/0126536 A1 3 July 2003 (03-07-2003) Gollamudi et al. *whole document	1-40

Further documents are listed in the continuation of Box C.

See patent family annex.

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- “A” document defining the general state of the art which is not considered to be of particular relevance
- “E” earlier application or patent but published on or after the international filing date
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- “O” document referring to an oral disclosure, use, exhibition or other means
- “P” document published prior to the international filing date but later than the priority date claimed

- “T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- “X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- “Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- “&” document member of the same patent family

Date of the actual completion of the international search

21 March 2005 (21-03-2005)

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.  
PCT/CA2004/001459

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US5764699	09-06-1998	none	
EP0964540	15-12-1999	US6421527 B1	16-07-2002
US6215827	10-04-2001	AU2121799 A BR9915302 A CA2244428 A1 CA2263060 A1 CN1154391C C EP0899906 A2 EP0944201 A2 JP3441379B2 JP11313040 A US6108374 A	30-09-1999 24-07-2001 24-02-1999 19-09-1999 16-06-2004 03-03-1999 22-09-1999 02-09-2003 09-11-1999 22-08-2000
US2003126536	03-07-2003	none	